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PULPWOOD CONSUMPTION AND WOOD-PULP PRODUCTION

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FOREST PRODUCTS: 1923

PULP-WOOD CONSUMPTION AND WOOD-PULP PRODUCTION

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PULP-WOOD CONSUMPTION AND WOOD-PULP PRODUCTION: 1923

INTRODUCTION

The consumption of pulp wood and the production of wood pulp increased 5.8 per cent and 7.6 per cent, respectively, in 1923 as compared with 1922, indicating a return to normal conditions and a healthy growth in the industry.

Close comparison of the 1923 statistics with those for earlier years discloses a slight tendency toward decentralization of the industry. Production in the South and Northwest continued to increase. As a result of this growth in these regions where the wood supply is comparatively ample, the dependence upon outside sources for paper-making materials may decrease somewhat.

The imports of wood pulp were greater in 1923 than in any other year of record, and were more than double the imports recorded for any year prior to 1920; and the imports of pulp wood in 1923 exceeded those shown for any other year of record except 1918. The amount of pulp imported in 1923 was more than one-third as large as the amount of the domestic production; and nearly one-fourth of the latter amount was made from imported wood. These facts afford some indication of the growing dependence of the United States on foreign sources for its supply of pulp.

Business conditions in 1923 were, on the whole, very good, the recovery from the depression which prevailed during 1921 and the early part of 1922 having become practically complete by the beginning of 1923. Domestic competition in the pulp and paper industries was keen, and competition with Canada in the case of newsprint paper and mechanical and sulphite pulp was also strong. Imports of European pulp were smaller than in prior post-war years, but they entered upon a practically fully stocked market, with some embarrassment to domestic producers. Labor and transportation facilities were ample to meet the situation in 1923, and financial conditions were easier than in the last two preceding years.

PULP-WOOD CONSUMPTION

Consumption, by kinds of wood (Table 1).—The total consumption of pulp wood in 1923 increased 324,028 cords, or 5.8 per cent, as compared with 1922, but decreased 241,202 cords, or 4 per cent, as compared with 1920, the peak year for the industry. The principal woods—spruce, hemlock, and yellow pine—all showed consistent increases over 1922, but decreases are recorded for some of the less important species, namely, domestic poplar, balsam fir, tamarack or larch, gum, and basswood. Increases appear for all other woods, and also for slabs and other mill waste. The fluctuation in the consumption of the minor species is not important and may be attributed largely to local conditions.

The noteworthy increase in the consumption of yellow pine for pulp has been brought about by a gradual shift of wood requirements within the industry from the more costly and more nearly depleted species to the cheaper and more abundant ones.

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Consumption, by quantity and cost (Table 2).—The average cost of pulp wood in 1923 remained at substantially the same level as reported for 1922, the increase being only 3 cents per cord. The average for 1923 was considerably lower than for 1921 or 1920, but was higher than for any year prior to 1920.

Consumption, by kinds of wood and by States (Table 3).—The rank of the leading five States in the consumption of pulp wood was the same as in 1922. Michigan, the only State shown separately which reported a decrease, dropped from sixth place in 1922 to eighth in 1923, falling below both Minnesota and Virginia. As in previous years, Maine, Wisconsin, and New York were by far the most important States in this industry, their combined consumption amounting to 55.8 per cent of the total for 1923. The principal wood used in Maine was domestic spruce; in Wisconsin, hemlock; and in New York, imported spruce. More than one-half of the total imports of spruce pulp wood into the United States were consumed in the last-named State.

Processes of manufacture, by kinds of wood (Table 4).—The sulphite process is the leading one employed in the reduction of spruce, hemlock, balsam fir, white fir, and mill waste. Nearly one-half of the total amount of wood consumed, of all species, was reduced by this process. Poplar, yellow poplar, gum, basswood, beech, birch, maple, cottonwood, Douglas fir, and willow were reduced mainly by the soda process, and yellow pine, jack pine, and tamarack or larch, by the sulphate process. A greater amount of wood of all species was reduced by the mechanical process than by either the soda or the sulphate process, but the reduction by the mechanical process did not, in the case of any species, amount to as much as 50 per cent of the total. The principal woods reduced in considerable quantities by this process were spruce, hemlock, balsam fir, and white fir.

The following tabular statement shows, for the last five years covered by the inquiry, the percentage of the total consumption of pulp wood reduced by each process:

YEAR	Total pulp wood consumed (cords)	PER CENT OF TOTAL REDUCED BY SPECIFIED PROCESS			
		Sulphite	Mechanical	Soda	Sulphate
1923	5,872,870	48.8	26.7	14.2	10.3
1922	5,548,842	49.8	26.9	14.2	9.1
1921	4,557,179	52.0	28.2	13.4	6.4
1920	6,114,072	52.4	26.0	15.1	6.5
1919	5,477,832	52.3	28.0	14.6	5.0

In 1923 Maine led in both the total consumption of pulp wood and the quantity reduced by the sulphite process. New York led in the use of the mechanical process; Pennsylvania, the soda process; and Wisconsin, the sulphate process.

Condition in which wood was purchased and average cost, by States (Table 5).—The quantity of rough wood purchased amounted to 49.1 per cent of the total for 1923, as against 45.3 per cent for 1922; peeled wood contributed 46.4 per cent in 1923 and 50.8 per cent in 1922; and rossed wood, 4.4 per cent in the later and 3.9 per cent in the earlier year. Of the leading five States in this industry all but Wisconsin reported the purchase of most of the wood in peeled form. In that State, however, nearly all the wood was purchased rough.

Condition in which wood was purchased and average cost, by kinds of wood (Table 6).—Domestic spruce, hemlock, balsam fir, jack pine, white fir, and tamarack or larch were generally purchased rough; the greater part of the imported spruce, yellow pine, domestic and imported poplar, basswood, and all the yellow poplar and gum were purchased peeled; and spruce and balsam fir were the principal woods purchased rossed.

WOOD-PULP PRODUCTION

Consumption of wood and production of pulp (Table 7).—Increases in both the consumption of wood and the production of pulp in 1923 as compared with the preceding year were reported for all the principal States in this industry with the exception of Michigan, in which State the consumption decreased 8,072 cords, or 3.4 per cent, and the production decreased 10,878 tons, or 7.3 per cent. These declines were due primarily to the fact that one of the important establishments was destroyed by fire early in 1923. The States reporting increases in the average cost of wood per cord and those showing decreases were about equal in number. The greatest fluctuation appears for Vermont, where the average cost decreased from $23.34 in 1922 to $17.36 in 1923.

Production of wood pulp, by processes and condition (Table 8).—The quantity of screenings produced was called for by the biennial census questionnaires for 1923, 1921, and 1919, but not by the questionnaires for other years, and consequently the figures shown in the table may not be strictly comparable. The lack of comparability due to this cause is, however, unimportant.

The noteworthy increase in the production of sulphate pulp since 1921 is due to the movement toward the utilization of yellow pine and other less commonly used woods.

The following statement shows, for the five years 1919 to 1923, inclusive, the total quantity of wood pulp produced and the percentage contributed by each process:

YEAR	Total wood pulp produced (tons)	PER CENT OF TOTAL PRODUCED BY SPECIFIED PROCESS				
		Mechanical	Sulphite	Soda	Sulphate	Screenings
1923	3,788,672	41.4	37.3	11.7	8.2	1.4
1922	3,521,644	42.1	39.0	11.9	6.9	(1)
1921	2,875,601	43.8	39.7	10.5	4.8	1.2
1920	3,821,704	41.5	41.5	12.1	4.9	(1)
1919	3,517,952	43.2	40.3	11.7	3.4	1.3

[1] Not reported.

Production of wood pulp, by processes (Table 9).—The quantity of wood pulp, produced shows an increase for each process for 1923 as compared with the previous year, the greatest proportional increase (28.2 per cent) being recorded for sulphate pulp.

Production and value of wood pulp, by States (Table 10).—This table presents statistics showing the production of pulp, by quantity and value, in as much detail as is possible without revealing the operations of individual establishments. Because of the differences in methods of manufacture and inquality of pulp produced, and because of concentration within some States uponcertain processes the average values per ton by States are not comparable.

The following tabular statement shows the production of pulp (not including screenings), by processes and condition, for 1923:

PROCESS	PRODUCTION (TONS OF 2,000 POUNDS)		
	Total	Not steamed	Steamed
Mechanical	1,567,794	1,464,081	103,713
		Not bleached	Bleached
Sulphite	1,411,227	853,381	557,846
Soda	445,162	28,119	417,043
Sulphate	312,483	282,492	29,991

The average values per ton, by processes and condition, for 1923, 1922, 1920, and 1918, were as follows:

YEAR	MECHANICAL		SULPHITE		SODA		SULPHATE	
	Not steamed	Steamed	Unbleached	Bleached	Unbleached	Bleached	Unbleached	Bleached
1923 [1]	$30.89	$37.00	$60.13	$82.24	$72.65	$76.15	$55.81	$61.19
1922	31.37	35.61	61.64	81.00	65.02	73.11	55.52	61.38
1920	37.70	48.83	76.73	124.31	102.62	110.18	85.71	94.94
1918	25.44	27.23	57.42	91.05	71.30	77.33	69.70	86.38

[1] Exclusive of screenings.

IMPORTS AND EXPORTS

The data shown in Tables 11 to 15, inclusive, were taken from the "Summary of Exports and Imports of the United States," published by the Bureau of Foreign and Domestic Commerce, Department of Commerce, and are included in this bulletin for ready reference. All quantities of pulp and paper have been reduced to short tons for convenience in making comparisons.

The imports of pulp wood in 1923 were greater than those of any other year covered by the statistics, with the exception of 1918, and show an increase of 307,147 cords, or 29.4 per cent, over 1922. More than 63 per cent of the wood imported in 1923 was peeled.

The imports of wood pulp in 1923 exceeded those of 1922 by 123,640 tons, or 9.8 per cent, and were the largest on record. Imports of sulphite pulp contributed 57.7 per cent of the total quantity and 65.3 per cent of the total value, and were greater for 1923 than for any previous year for which data have been collected. Mechanical pulp imported in 1923 also shows increases in quantity as compared with all previous years covered by the statistics, but its value was considerably below that recorded for 1920. The imports of sulphate pulp in 1923 decreased in both quantity and value as compared with 1922.

The exports of wood pulp reached their maximum in 1919 and have since declined from year to year.

The imports of paper reached a new high level in 1923, and for the first time exceeded $100,000,000 in value. For newsprint paper, which contributed 79 per cent of the total value of imported paper in 1923, the figures show increases of 179,575 tons, or 17.4 per cent, in quantity and $25,666,779, or 35.5 per cent, in value as compared with 1922. The exports of the several classes of paper in 1923 show decreases in quantity as compared with 1922, but their combined value increased somewhat. For newsprint paper pronounced declines are recorded for both quantity and value. For all classes of paper covered by the statistics the quantities exported in 1923 were equal to only a minor fraction of the exports shown for 1919, the peak year. The combined value of the exports in 1923, however, was equal to slightly more than half of the corresponding value for 1919.

The figures for imports of pulp wood, as published in the "Summary of Exports and Imports of the United States," and those for imported pulp wood used, as compiled by the Bureau of the Census, are not comparable, for the reason that the mills were requested to report separately imported spruce and imported poplar only. Several other kinds of wood, for which separate data were not required, were probably also imported. Moreover, the statistics on pulp-wood consumption pertain solely to the quantities used during the calendar year, which in the cases of many mills included some stock imported in previous years and excluded some imported but not consumed during the year to which the statistics relate.

Imports, exports, and domestic production of paper.—The statement below shows, for the last five manufactures-census years, the domestic production in comparison with imports and exports of paper. (The census of manufactures was taken quinquennially prior to 1921, but is now taken at biennial intervals.)

	NEWSPRINT PAPER		ALL OTHER PRINTING PAPER	
	Quantity (tons)	Value	Quantity (tons)	Value
1923				
Domestic production	1,521,080	$110,864,736	1,297,434	$181,068,196
Imports	1,208,843	98,021,045	8,237	817,372
Exports	16,357	1,636,937	13,299	3,001,149
1921				
Domestic production	1,237,408	114,314,537	858,050	133,778,404
Imports	792,481	79,123,368	682	196,726
Exports	16,812	2,160,339	20,092	5,895,245
1919				
Domestic production	1,323,880	98,559,359	1,063,652	156,752,708
Imports	627,734	43,674,294	79	58,119
Exports	110,268	10,091,951	76,691	16,169,055
1914				
Domestic production	1,313,284	52,942,774	942,862	73,990,280
Imports	315,475	12,189,792	2,876	261,616
Exports	60,789	2,983,344	15,130	1,563,960
1909				
Domestic production	1,168,098	46,390,041	702,361	55,264,359
Imports	[1] 24,911	[1] 1,146,885		
Exports	[1] 48,740	[1] 2,832,793		

	WRAPPING PAPER		ALL OTHER PAPER	Total value
	Quantity (tons)	Value	Value	
1923				
Domestic production	1,026,979	$120,763,063	$399,813,176	$812,509,171
Imports	42,812	3,814,655	21,458,826	124,111,898
Exports	13,374	2,176,377	36,742,925	43,557,388
1921				
Domestic production	703,788	86,679,017	250,963,002	585,734,960
Imports	5,520	506,314	12,546,198	92,372,606
Exports	13,022	2,293,892	39,145,346	49,494,822
1919				
Domestic production	831,372	103,069,297	314,667,725	673,049,089
Imports	2,401	406,570	9,463,191	53,602,174
Exports	37,458	6,664,462	54,057,595	86,983,063
1914				
Domestic production	881,799	49,372,753	115,282,661	291,588,468
Imports	20,540	1,156,591	13,996,772	27,604,771
Exports	7,408	522,951	15,038,687	20,113,942
1909				
Domestic production	763,067	42,220,391	88,866,258	232,741,049
Imports			17,002,458	18,149,343
Exports				[1] 2,832,793

[1] Newsprint paper and other printing paper.

TABLE 1.—PULP-WOOD CONSUMPTION, BY KINDS OF WOOD, FOR THE UNITED STATES: 1923, 1922, 1920, AND 1909.

KIND OF WOOD	QUANTITY (CORDS)				PER CENT DISTRIBUTION			
	1923	1922	1920 [1]	1909	1923	1922	1920	1909
Total	5,872,870	5,548,842	6,114,072	4,001,607	100.0	100.0	100.0	100.0
Spruce:								
Domestic	2,195,395	2,162,848	2,565,787	1,653,249	37.4	39.0	42.0	41.3
Imported	1,054,273	870,042	921,811	768,332	18.0	15.7	15.1	19.2
Hemlock	970,102	893,195	885,485	559,657	16.5	16.1	14.5	14.0
Yellow pine	419,734	372,524	323,434	90,885	7.1	6.7	5.3	2.3
Poplar:								
Domestic	152,886	157,939	189,946	302,876	2.6	2.8	3.1	7.6
Imported	181,808	179,992	177,748	25,622	3.1	3.2	2.9	.6
Balsam fir	237,509	308,261	328,882	95,366	4.0	5.6	5.4	2.4
Yellow poplar	102,781	102,200	73,998	[2]	1.8	1.8	1.2	------
Jack pine	68,558	50,400	40,052	[3]	1.2	.9	.6	------
White fir	65,783	45,069	41,862	37,176	1.1	.8	.7	.9
Tamarack or larch	56,233	68,294	69,751	[4]	1.0	1.2	1.1	------
Gum	43,989	52,058	68,914	[4]	.7	.9	1.1	------
Basswood	10,650	12,136	10,469	[4]	.2	.2	.2	------
All other [5]	209,235	186,366	245,704	219,467	3.6	3.4	4.0	5.5
Slabs and other mill waste	103,934	87,718	170,229	248,977	1.8	1.6	2.8	6.2

[1] Figures compiled by Forest Service, Department of Agriculture.
[2] Included in "domestic poplar."
[3] Included in "yellow pine."
[4] Included in "all other" species.
[5] Beech, birch, maple, cherry, chestnut, cottonwood, Douglas fir, white pine, and willow.

TABLE 2.—QUANTITY AND COST OF PULP WOOD CONSUMED, FOR THE UNITED STATES, FOR SPECIFIED YEARS: 1899–1923

YEAR	Quantity (cords)	COST (F. O. B. MILL)		YEAR	Quantity (cords)	COST (F. O. B. MILL)	
		Total	Average per cord			Total	Average per cord
1923	5,872,870	$95,306,283	$16.23	1911	4,328,052	----------	-------
1922	5,548,842	89,895,191	16.20	1910	4,094,306	----------	-------
1921	4,557,179	91,589,103	20.10	1909	4,001,607	$34,477,540	$8.62
1920	6,114,072	116,495,720	19.03	1908	3,346,953	28,047,473	8.38
1919	5,447,832	87,386,083	15.95				
				1907	3,962,660	32,360,276	8.17
1918	5,250,794	73,167,118	13.93	1906	3,661,176	26,411,887	7.21
1917	5,480,075	60,815,057	11.10	1905	3,192,123	17,735,665	5.56
1916	5,228,558	[1] 45,785,682	8.76	1899	1,986,310	9,837,516	4.95
1914	4,470,763	39,408,453	8.81				

[1] Not including slabs and other mill waste in Louisiana, Massachusetts, North Carolina, and Virginia.

TABLE 3.—PULP-WOOD CONSUMPTION, BY KINDS OF WOOD, BY STATES: 1923

STATE	Number of establishments	PULP WOOD CONSUMED (CORDS)						
		Total	Spruce		Hemlock	Yellow pine	Poplar	
			Domestic	Imported			Domestic	Imported
United States	241	5,872,870	2,195,395	1,054,273	970,102	419,734	152,886	181,808
Maine	31	1,273,794	860,901	148,367	20,672	----	106,948	58,115
Wisconsin	43	1,043,056	251,483	28,979	545,771	----	3,610	----
New York	81	959,517	239,595	573,769	28,204	----	14,364	59,620
Pennsylvania	13	444,329	----	121,767	11,558	82,937	15,563	63,889
New Hampshire	7	311,434	203,740	88,717	2,132	----	----	184
Minnesota	7	271,139	271,139	----	----	----	----	----
Virginia	7	249,079	44,756	3,641	41,544	103,909	----	----
Michigan	11	231,173	73,555	57,273	58,037	----	983	----
Washington	5	191,751	35,916	8,823	97,503	----	----	----
Louisiana	3	97,574	----	----	----	97,574	----	----
Vermont	7	87,747	80,556	6,930	94	----	167	----
West Virginia	4	54,327	36,052	----	12,297	3,985	1,993	----
Massachusetts	3	47,172	39,920	2,001	311	----	4,940	----
California and Oregon	6	205,199	39,399	----	124,327	----	----	----
All other States [1]	13	405,579	18,383	14,006	27,652	131,329	4,318	----

STATE	PULP WOOD CONSUMED (CORDS)								
	Balsam fir	Yellow poplar	Jack pine	White fir	Tamarack or larch	Gum	Basswood	All other	Slabs
United States	237,509	102,781	68,558	65,783	56,233	43,989	10,650	209,235	103,934
Maine	56,249	----	----	----	----	----	1,673	20,869	----
Wisconsin	103,244	----	59,272	----	43,257	----	----	----	2,440
New York	39,214	----	----	----	----	----	4,680	71	----
Pennsylvania	9,000	7,891	----	----	----	28,390	----	56,229	47,105
New Hampshire	5,979	----	----	----	----	----	----	----	10,682
Minnesota	----	----	----	----	----	----	----	----	----
Virginia	----	40,394	----	----	----	842	421	4,960	8,612
Michigan	18,823	----	9,286	----	12,976	----	----	240	----
Washington	----	----	----	24,310	----	----	----	25,199	----
Louisiana	----	----	----	----	----	----	----	----	----
Vermont	----	----	----	----	----	----	----	----	----
West Virginia	----	----	----	----	----	----	----	----	----
Massachusetts	----	----	----	----	----	----	----	----	----
California and Oregon	----	----	----	41,473	----	----	----	----	----
All other States [1]	----	54,496	----	----	----	14,757	3,876	101,667	35,095

[1] Delaware, 1 establishment; District of Columbia, 1; Georgia, 1; Maryland, 2; Mississippi, 1 ;North Carolina, 2; Ohio, 2; South Carolina, 1; Tennessee, 1; and Texas, 1.

TABLE 4.—PULP-WOOD CONSUMPTION, BY KINDS OF WOOD AND BY PROCESSES OF MANUFACTURE, FOR THE UNITED STATES: 1923

KIND OF WOOD	CONSUMPTION (CORDS)				
	Total	Process of manufacture			
		Mechanical	Sulphite	Soda	Sulphate
Total	5,872,870	1,567,812	2,864,525	835,518	605,015
Spruce:					
Domestic	2,195,395	1,010,376	1,077,031	9	107,979
Imported	1,054,273	374,452	636,299	22,708	20,814
Hemlock	970,102	63,970	884,902	12	21,218
Yellow pine	419,734	11,687	8,387	118,160	281,500
Poplar:					
Domestic	152,886	9,051	2,423	141,412	
Imported	181,808	1,141		180,667	
Balsam fir	237,509	63,853	126,668		46,988
Yellow poplar	102,781			102,781	
Jack pine	68,558	9,851	7		58,700
White fir	65,783	21,442	44,341		
Tamarack or larch	56,233	1,491	2,737		52,005
Gum	43,989			43,989	
Basswood	10,650	427		10,223	
All other [1]	209,235	71	240	208,924	
Slabs and other mill waste	103,934		81,490	6,633	15,811

[1] Beech, birch, maple, cherry, chestnut, cottonwood, Douglas fir, white pine, and willow.

TABLE 5.—PULP-WOOD CONSUMPTION—QUANTITY AND AVERAGE COST PER CORD, BY CONDITION IN WHICH PURCHASED, BY STATES: 1923

STATE	TOTAL		ROUGH		PEELED		ROSSED	
	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)
United States	5,872,870	$16.23	2,885,964	$13.85	2,726,732	$17.99	260,174	$24.14
Maine	1,273,794	19.40	339,288	18.09	825,029	19.25	109,477	24.43
Wisconsin	1,043,056	13.14	1,040,907	13.13	464	6.00	1,685	23.00
New York	959,517	19.54	200,752	18.73	639,769	18.95	118,996	24.10
Pennsylvania	444,329	17.53	65,000	19.00	370,265	17.17	9,064	22.00
New Hampshire	311,434	21.84	56,842	14.90	244,904	23.49	9,688	20.87
Minnesota	271,139	14.27	252,207	14.57	18,932	10.20		
Virginia	249,079	12.87	70,926	7.77	178,153	14.90		
Michigan	231,173	14.98	198,719	14.75	31,904	16.23	550	23.00
Washington	191,751	11.24	143,272	11.23	48,479	11.27		
Louisiana	97,574	5.40	84,824	4.89	12,750	8.75		
Vermont	87,747	17.36	49,125	16.44	36,359	18.08	2,263	25.64
West Virginia	54,327	8.83	50,475	8.55	3,852	12.45		
Massachusetts	47,172	19.73	9,358	16.50	29,363	18.73	8,451	26.78
California and Oregon	205,199	13.24	149,536	12.85	55,663	14.30		
All other States [1]	405,579	11.53	174,733	10.47	230,846	12.33		

[1] Delaware, District of Columbia, Georgia, Maryland, Mississippi, North Carolina, Ohio, South Carolina, Tennessee, and Texas.

TABLE 6.—PULP-WOOD CONSUMPTION—QUANTITY AND AVERAGE COST PER CORD, BY CONDITION IN WHICH PURCHASED AND BY KINDS OF WOOD, FOR THE UNITED STATES: 1923

KIND OF WOOD	TOTAL		ROUGH		PEELED		ROSSED	
	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)
Total	5,872,870	$16.23	2,885,964	$13.85	2,726,732	$17.99	260,174	$24.14
Spruce:								
Domestic	2,195,395	18.20	1,163,041	16.01	951,590	20.41	80,764	23.73
Imported	1,054,273	20.34	261,383	18.57	639,948	20.13	152,942	24.22
Hemlock	970,102	12.81	822,320	12.30	147,782	15.67	----------	----------
Yellow pine	419,734	9.61	201,276	6.97	218,458	12.05	----------	----------
Poplar:								
Domestic	152,886	15.67	12,981	11.17	139,595	16.09	310	15.00
Imported	181,808	17.11	197	15.85	181,543	17.11	68	23.94
Balsam fir	237,509	15.34	178,592	13.67	43,433	19.54	15,484	22.79
Yellow poplar	102,781	13.94	----------	----------	102,781	13.94	----------	----------
Jack pine	68,558	10.78	63,272	10.38	5,286	15.50	----------	----------
White fir	65,783	11.01	46,830	11.76	18,953	9.16	----------	----------
Tamarack or larch	56,233	10.66	50,946	10.16	5,287	15.50	----------	----------
Gum	43,989	15.82	----------	----------	43,989	15.82	----------	----------
Basswood	10,650	15.05	----------	----------	10,223	15.21	427	11.00
All other [1]	209,235	13.23	54,488	9.50	146,889	13.56	7,858	33.00
Slabs and other mill waste	103,934	11.32	30,638	5.01	70,975	13.90	2,321	15.75

[1] Beech, birch, maple, cherry, chestnut, cottonwood, Douglas fir, white pine, and willow.

TABLE 7.—PULP-WOOD CONSUMPTION AND WOOD-PULP PRODUCTION—NUMBER OF MILLS REPORTING, QUANTITY AND COST OF WOOD CONSUMED, AND QUANTITY OF PULP PRODUCED, BY STATES: 1917–1923

STATE	Year	Number of mills reporting	WOOD CONSUMED			Pulp produced (tons of 2,000 pounds)
			Quantity (cords)	Cost (f. o. b. mill)		
				Average per cord	Total	
United States	1923	241	5,872,870	$16.23	$95,306,283	3,788,672
	1922	241	5,548,842	16.20	89,895.191	3,521,644
	1921	254	4,557,179	20.10	91,589,103	2,875,601
	1920	253	6,114,072	19.03	116,495,720	3,821,704
	1919	258	5,477,832	15.95	87,386,083	3,517,952
	1918	250	5,250,794	13.93	73,167,118	3,313,861
	1917	246	5,480,075	11.10	60,815,057	3,500,939
Maine	1923	31	1,273,794	19.40	24,711,387	901,007
	1922	32	1,238,910	19.04	23,596,879	862,672
	1921	32	1,005,158	21.78	21,896,753	710,329
	1920	35	1,389,495	21.08	29,297,353	942,730
	1919	34	1,279,852	19.37	24,795,623	916,764
	1918	33	1,234,969	15.57	19,226,644	872,779
	1917	33	1,309,239	11.31	14,813,387	898,798
Wisconsin	1923	43	1,043,056	13.14	13,706,797	577,993
	1922	41	1,037,991	12.81	13,296,708	564,696
	1921	47	867,195	16.39	14,216,087	488,501
	1920	45	964,781	14.61	14,092,346	548,528
	1919	47	854,185	11.99	10,242,909	506,549
	1918	46	860,857	9.93	8,551,564	473,890
	1917	43	805,490	8.79	7,083,173	456,129
New York	1923	81	959,517	19.54	18,748,999	760,199
	1922	80	872,636	20.20	17,627,653	675,325
	1921	82	781,168	26.38	20,603,410	606,869
	1920	78	1,130,505	25.01	28,272,896	830,045
	1919	84	1,055,145	19.43	20,498,405	811,958
	1918	75	1,003,742	17.89	17,954,934	749,176
	1917	79	1,056,556	14.45	15,270,142	798,616

TABLE 7.—PULP-WOOD CONSUMPTION AND WOOD-PULP PRODUCTION—NUMBER OF MILLS REPORTING, QUANTITY AND COST OF WOOD CONSUMED, AND QUANTITY OF PULP PRODUCED, BY STATES: 1917–1923—Continued

STATE	Year	Number of mills reporting	WOOD CONSUMED			Pulp produced (tons of 2,000 pounds)
			Quantity (cords)	Cost (f. o. b. mill)		
				Average per cord	Total	
Pennsylvania	1923	13	444,329	$17.53	$7,790,558	236,900
	1922	13	405,197	17.90	7,254,876	217,115
	1921	13	326,486	21.67	7,075,050	167,310
	1920	14	490,784	19.60	9,617,896	238,013
	1919	14	423,822	16.22	6,873,612	215,686
	1918	14	383,699	15.48	5,941,382	195,451
	1917	14	415,776	11.23	4,669,165	215,060
New Hampshire	1923	7	311,434	21.84	6,802,728	188,323
	1922	8	302,146	22.50	6,800,748	179,135
	1921	10	258,206	24.82	6,408,999	152,797
	1920	11	403,530	22.18	8,952,197	239,634
	1919	10	375,597	19.43	7,297,625	232,134
	1918	11	345,272	18.10	6,248,764	229,774
	1917	11	416,553	13.78	5,738,883	257,645
Minnesota	1923	7	271,139	14.27	3,868,221	170,609
	1922	7	235,215	16.51	3,885,273	162,220
	1921	7	164,547	19.86	3,268,559	117,934
	1920	6	254,193	14.57	3,703,024	170,216
	1919	6	203,862	11.86	2,416,847	129,560
	1918	6	182,002	11.79	2,145,170	121,444
	1917	6	205,026	11.31	2,319,833	140,353
Michigan	1923	11	231,173	14.98	3,462,002	138,034
	1922	12	239,245	13.60	3,254,749	148,912
	1921	12	186,532	17.46	3,256,085	103,532
	1920	12	243,632	16.62	4,047,994	132,776
	1919	12	207,234	12.48	2,586,808	106,194
	1918	12	203,516	10.57	2,150,354	101,036
	1917	11	187,117	9.30	1,740,580	96,623
Washington	1923	5	191,751	11.24	2,155,716	136,943
	1922	5	153,875	9.57	1,474,002	102,349
	1921	5	140,691	14.94	2,236,052	95,161
	1920	5	143,794	10.90	1,567,748	95,465
	1919	4	139,365	10.00	1,393,636	83,575
	1918	3	108,187	9.02	975,605	68,618
	1917	3	99,585	7.09	706,313	93,576
Vermont	1923	7	87,747	17.36	1,523,123	70,840
	1922	6	63,589	23.34	1,484,580	54,668
	1921	8	47,471	25.35	1,203,189	41,945
	1920	9	116,765	21.32	2,489,313	96,666
	1919	9	111,679	15.07	1,682,864	85,945
	1918	9	99,687	15.47	1,542,652	83,548
	1917	10	109,616	12.33	1,351,825	94,975
West Virginia	1923	4	54,327	8.83	479,704	23,072
	1922	4	41,469	9.83	407,705	19,051
	1921	4	61,282	12.43	761,651	27,623
	1920	4	84,725	10.88	922,027	35,821
	1919	5	83,590	11.62	971,376	39,195
	1918	5	109,885	11.22	1,233,252	48,261
	1917	5	119,918	8.61	1,032,045	54,813
Massachusetts	1923	3	47,172	19.77	930,713	31,369
	1922	4	43,222	19.09	825,434	27,797
	1921	4	34,874	26.75	932,927	22,064
	1920	4	56,049	22.14	1,240,758	34,687
	1919	4	51,981	19.33	1,004,840	32,611
	1918	4	45,754	17.53	792,263	30,674
	1917	4	55,897	12.58	703,369	30,802
California and Oregon	1923	6	205,199	13.24	2,717,337	162,653
	1922	6	192,386	10.80	2,077,923	156,218
	1921	6	192,869	17.05	3,289,335	124,494
	1920	6	190,399	14.04	2,672,402	148,877
	1919	6	171,765	9.62	1,652,462	123,990
	1918	6	131,587	8.90	1,171,073	100,036
	1917	5	162,709	6.03	981,357	120,237
All other States (Delaware, District of Columbia, Georgia, Louisiana, Maryland, Mississippi, North Carolina, Ohio, South Carolina, Tennessee, Texas, and Virginia).	1923	23	752,232	11.18	8,408,998	390,730
	1922	23	722,961	10.94	7,908,661	351,486
	1921	24	481,700	13.37	6,441,006	217,042
	1920	24	645,420	14.90	9,619,766	308,246
	1919	23	519,755	11.48	5,969,076	233,791
	1918	26	541,637	9.66	5,233,461	239,174
	1917	22	536,593	8.21	4,404,985	243,312

TABLE 8.—PRODUCTION OF WOOD PULP, BY PROCESSES AND CONDITION, FOR THE UNITED STATES: 1917–1923

PROCESS	PRODUCTION (TONS OF 2,000 POUNDS)						
	1923	1922	1921	1920	1919	1918	1917
Total	3,788,672	3,521,644	2,875,601	3,821,704	3,517,952	3,313,861	3,509,939
Mechanical	1,567,794	1,483,787	1,259,699	1,583,914	1,518,829	1,364,504	1,535,953
Not steamed	1,464,081	1,275,912	1,112,577	1,459,232	1,237,194	1,228,274	1,336,268
Steamed	103,713	207,875	147,122	124,682	281,635	136,230	199,685
Sulphite	1,411,227	1,374,319	1,142,123	1,585,834	1,419,829	1,456,633	1,451,757
Unbleached	853,381	841,421	720,781	1,035,888	910,091	896,657	999,909
Bleached	557,846	532,898	421,342	549,946	509,738	559,976	451,848
Soda	445,162	419,857	300,533	463,305	411,693	350,362	437,430
Unbleached	28,119	27,232	21,772	35,451	27,608	29,499	34,509
Bleached	417,043	392,625	278,761	427,854	384,085	320,863	402,921
Sulphate	312,483	243,681	138,066	188,651	120,378	142,362	84,799
Unbleached	282,492	223,278	126,266	183,349	92,375	124,177	69,998
Bleached	29,991	20,403	11,800	5,302	28,003	18,185	14,801
Screenings	52,006	(1)	35,180	(1)	47,223	(1)	(1)
Mechanical	12,759	(1)	7,683	(1)	12,220	(1)	(1)
Chemical	39,247	(1)	27,497	(1)	35,003	(1)	(1)

[1] Not reported separately.

TABLE 9.—PRODUCTION OF WOOD PULP, BY PROCESSES, FOR THE UNITED STATES, FOR SPECIFIED YEARS: 1899–1923

YEAR	PRODUCTION (TONS OF 2,000 POUNDS)				
	Total	Mechanical	Sulphite	Soda	Sulphate
1923	[1] 3,788,672	1,580,553	1,448,690	445,162	314,267
1922	[2] 3,521,644	1,483,787	1,374,319	419,857	243,681
1921	[2] 2,875,601	[2] 1,267,382	[2] 1,166,926	300,533	140,760
1920	3,821,704	1,583,914	1,585,834	463,305	188,651
1919	[3] 3,517,952	1,518,829	1,419,829	411,693	120,378
1918	3,313,861	1,364,504	1,456,633	350,362	142,362
1917	3,509,939	1,535,953	1,451,757	437,430	84,799
1916	3,435,001	1,508,139	1,466,402	387,021	73,439
1914	[4] 2,893,150	1,293,661	1,151,327	347,928	52,641
1911	2,686,134	(5)	(5)	(5)	(5)
1910	2,533,976	(5)	(5)	(5)	(5)
1909	2,495,523	1,179,266	1,017,631	298,626	----------
1908	2,118,947	(5)	(5)	(5)	(5)
1907	2,547,879	(5)	(5)	(5)	(5)
1904	1,921,768	968,976	756,022	196,770	----------
1899	1,179,525	586,374	416,037	177,114	----------

[1] Includes screenings as follows: Mechanical, 12,759 tons; sulphite, 37,463 tons; and sulphate, 1,784 tons.
[2] Includes some screenings.
[3] Includes screenings as follows: Mechanical, 12,220 tons; chemical, not shown by process, 35,003 tons.
[4] Includes screenings as follows: Mechanical, 11,769 tons; chemical, not shown by process, 35,824 tons.
[5] Not reported separately.

TABLE 10.—PRODUCTION AND VALUE OF WOOD PULP, BY STATES: 1923

STATE	Quantity (tons of 2,000 pounds)	Value	Average value per ton
United States	3,788,672	$198,519,047	[1] $52.40
Maine	901,007	43,292,118	48.05
New York	760,199	35,839,966	47.15
Wisconsin	577,993	31,487,692	54.48
Pennsylvania	236,900	18,118,268	76.48
New Hampshire	188,323	13,789,647	73.22
Minnesota	170,609	7,834,327	45.92
Michigan	138,034	7,956,869	57.64
Washington	136,943	4,329,977	31.62
Virginia	130,012	8,954,321	68.87
Vermont	70,840	2,860,039	40.37
Louisiana	48,225	2,051,492	42.54
Massachusetts	31,369	2,296,932	73.22
West Virginia	23,072	1,066,070	46.21
California and Oregon	162,653	4,685,664	29.91
All other States [2]	212,493	13,955,665	65.68

[1] Averages by processes: Mechanical, not steamed, $30.89; steamed, $37.00. Sulphite, unbleached, $60.13; bleached, $82.24. Soda, unbleached, $72.65; bleached, $76.15. Sulphite, unbleached, $55.81; bleached, $61.19.

[2] Delaware, District of Columbia, Georgia, Maryland, Mississippi, North Carolina, Ohio, South Carolina, Tennessee, and Texas.

TABLE 11.—IMPORTS OF PULP WOOD, BY QUANTITY, VALUE, AND CONDITION: 1910–1923

YEAR	TOTAL			ROUGH		
	Quantity (cords)	Value	Average value per cord	Quantity (cords)	Per cent of total	Average value per cord
Total (14 years)	15,031,755	$134,406,087	$8.94	3,235,382	21.5	
1923	1,351,963	13,446,678	9.95	378,692	28.0	$9.27
1922	1,044,816	11,002,636	10.53	225,429	21.6	10.03
1921	1,081,634	15,387,355	14.23	242,586	22.4	12.52
1920	1,241,444	16,902,939	13.62	260,914	21.0	12.42
1919	1,047,299	10,458,753	9.99	241,420	23.1	9.59
1918	1,370,027	13,362,566	9.75	276,644	20.2	9.11
1917	1,031,934	8,563,458	8.30	206,081	20.0	7.29
1916	1,097,577	7,202,570	6.56	190,921	17.4	5.93
1915	975,974	6,278,948	6.43	258,620	26.5	5.82
1914	999,649	6,773,198	6.78	198,414	19.8	6.04
1913	1,034,885	7,007,350	6.77	195,906	18.9	5.66
1912	933,565	6,227,346	6.67	139,002	14.9	6.03
1911	889,257	5,682,716	6.39	191,062	21.5	5.44
1910	931,731	6,109,574	6.56	229,691	24.7	5.83

YEAR	PEELED			ROSSED		
	Quantity (cords)	Per cent of total	Average value per cord	Quantity (cords)	Per cent of total	Average value per cord
Total (14 years)	9,405,877	62.6		2,390,496	15.9	
1923	855,303	63.3	$9.84	117,968	8.7	$12.85
1922	706,596	67.6	10.21	112,791	10.8	13.53
1921	753,600	69.7	14.37	85,448	7.9	17.82
1920	824,326	66.4	13.13	156,204	12.6	18.19
1919	698,785	66.7	9.70	107,094	10.2	12.75
1918	964,804	70.4	9.63	128,579	9.4	12 04
1917	673,235	65.2	8.07	152,618	14.8	10.73
1916	742,337	67.6	6.43	164,319	15.0	7.90
1915	544,139	55.8	6.28	173,215	17.7	7.83
1914	599,299	60.0	6.40	201,936	20.2	8.61
1913	581,756	56.2	6.47	257,223	24.9	8.30
1912	528,900	56.7	6.06	265,663	28.4	8.23
1911	473,116	53.2	5.98	225,079	25.3	8.06
1910	459,681	49.3	6.28	242,359	26.0	7.77

TABLE 12.—IMPORTS OF WOOD PULP, BY QUANTITY, VALUE, AND PROCESS: 1909–1923

[Ton=2,000 pounds]

CALENDAR YEAR	TOTAL			CHEMICAL, UNBLEACHED					
				Unclassified		Sulphite		Sulphate	
	Quantity (tons)	Value	Average value per ton	Quantity (tons)	Value	Quantity (tons)	Value	Quantity (tons)	Value
Total	10,583,189	$510,462,929	$48.23	1,941,128	$63,590,773	2,482,775	$165,571,979	1,360,080	$89,373,265
1923	[1]1,382,601	[1] 74,702,884	54.03			517,387	26,548,431	261,072	15,187,996
1922	[2]1,258,961	[2] 63,292,294	50.27			473,424	22,297,283	308,795	16,096,562
1921	697,100	39,396,159	56.51			233,064	14,149,454	174,004	10,863,804
1920	906,297	89,418,185	98.66			344,969	37,510,435	182,697	17,025,709
1919	636,017	37,048,381	58.25			239,952	17,979,170	145,912	9,084,537
1918	578,209	31,477,175	54.44			253,454	16,973,540	118,761	7,971,067
1917	677,841	41,979,330	61.93			248,173	19,291,410	107,933	9,998,170
1916	683,764	26,985,693	39.47	[3] 135,044	[3] 5,255,297	[4] 172,352	[4] 10,822,256	[4] 60,906	[4] 3,150,420
1915	568,379	16,907,026	29.75	321,700	10,954,182				
1914	675,565	20,411,225	30.21	330,270	11,180,232				
1913	541,455	15,935,517	29.43	296,255	9,676,380				
1912	540,150	14,903,218	27.59	277,201	8,477,766				
1911	562,425	14,394,253	25.59	213,241	6,482,360				
1910	506,775	13,296,500	26.24	205,745	6,374,762				
1909	367,650	10,315,089	28.06	161,672	5,189,794				

CALENDAR YEAR	CHEMICAL, BLEACHED						MECHANICALLY GROUND	
	Unclassified		Sulphite		Sulphate			
	Quantity (tons)	Value	Quantity (tons)	Value	Quantity (tons)	Value	Quantity (tons)	Value
Total	610,738	$27,708,513	864,291	$80,084,425	74,401	$5,565,492	3,242,910	$78,188,340
1923			280,650	22,245,865	18,094	1,120,296	299,257	9,257,544
1922			240,630	18,098,373	19,807	1,067,598	215,580	5,695,088
1921			95,206	8,948,069	4,082	231,114	190,744	5,203,718
1920			128,206	19,046,439	17,277	1,954,006	233,148	13,881,596
1919			42,755	4,472,593	5,145	394,765	202,253	5,117,316
1918			16,757	1,512,742	3,759	299,790	185,478	4,720,036
1917			41,037	4,508,368	1,625	195,014	279,073	7,991,368
1916	[3] 29,283	[3] 1,506,034	[4] 19,050	[4] 1,251,976	[4] 4,612	[4] 302,909	262,517	4,696,801
1915	72,623	3,363,998					174,056	2,588,846
1914	128,038	5,984,060					217,257	3,246,933
1913	77,311	3,588,356					167,889	2,670,781
1912	77,146	3,374,071					185,803	3,051,381
1911	86,502	3,689,945					262,682	4,221,948
1910	76,846	3,343,422					224,184	3,578,316
1909	62,989	2,858,627					142,989	2,266,668

[1] Includes 6,141 tons of soda pulp, valued at $342,752.
[2] Includes 725 tons of soda pulp, valued at $37,390.
[3] Jan. 1 to June 30 only.
[4] July 1 to Dec. 31 only.

TABLE 13.—EXPORTS OF WOOD PULP, BY QUANTITY AND VALUE: 1909–1923

CALENDAR YEAR	Quantity (tons of 2,000 lbs.)	VALUE		CALENDAR YEAR	Quantity (tons of 2,000 lbs.)	VALUE	
		Total	Average per ton			Total	Average per ton
Total (15 years)	343,005	$21,243,052	$61.93	1916	40,023	$2,121,745	$53.01
				1915	20,294	820,134	40.41
1923	23,068	1,294,827	56.13	1914	12,337	484,477	39.27
1922	24,500	1,186,953	4?.45	1913	19,776	738,451	37.34
1921	28,483	1,754,639	61.60	1912	[1] 14,189	542,949	38.27
1920	31,966	2,947,267	92.20	1911	[1] 9,494	386,711	40.73
1919	40,057	3,048,491	76.10	1910	[1] 8,361	344,251	41.17
1918	22,324	1,733,872	77.67	1909	[1] 8,953	368,738	41.19
1917	39,180	3,469,547	88.55				

[1] Reported in pounds; reduced in this table to tons.

TABLE 14.—IMPORTS OF PAPER, BY CLASS, QUANTITY, AND VALUE: 1909–1923

[Ton=2,000 pounds]

CALENDAR YEAR	Total value	NEWSPRINT PAPER		ALL OTHER PRINTING PAPER		WRAPPING PAPER		ALL OTHER PAPER
		Quantity (tons)	Value	Quantity (tons)	Value	Quantity (tons)	Value	Value
Total (15 years)	$710,700,407	7,138,531	$489,819,974	29,624	$3,875,842	128,633	$12,997,979	$204,006,612
1923	124,111,898	1,208,843	98,021,045	8,237	817,372	42,812	3,814,655	21,458,826
1922	93,243,758	1,029,268	72,354,266	2,599	320,302	32,931	2,764,437	17,804,753
1921	92,372,606	792,481	79,123,368	682	196,726	5,520	506,314	12,546,198
1920	84,686,852	729,869	68,600,950	2,170	496,132	2,471	460,289	15,129,481
1919	53,602,174	627,734	43,674,294	79	58,119	2,401	406,570	9,463,191
1918	42,753,780	596,270	35,023,161	91	42,633	3,971	541,866	7,146,120
1917	41,734,084	559,113	30,929,628	206	67,931	3,331	456,752	10,279,773
1916	28,189,998	468,230	18,527,748	630	119,802	3,552	280,952	9,261,496
1915	24,465,694	368,409	14,138,651	1,198	161,703	11,104	626,661	9,538,679
1914	27,604,771	315,475	12,189,792	2,876	261,616	20,540	1,156,591	13,996,772
1913	24,359,827	219,844	8,549,062	3,379	371,328	-------	735,857	14,703,580
1912	18,723,877	85,593	3,262,778	2,799	292,242	-------	846,500	14,322,357
1911	18,112,859	55,830	2,096,105	3,688	534,250	-------	400,535	15,081,969
1910	18,588,886	56,661	2,182,241	[1] 990	[1] 135,686	-------	-------	16,270,959
1909	18,149,343	[2] 24,911	[2] 1,146,885	-------	-------	-------	-------	17,002,458

[1] July 1 to Dec31. only.
[2] Newsprint paper and other printing paper.

TABLE 15.—EXPORTS OF PAPER, BY CLASS, QUANTITY, AND VALUE: 1909–1923

[Ton=2,000 pounds]

CALENDAR YEAR	Total value	NEWSPRINT PAPER		ALL OTHER PRINTING PAPER		WRAPPING PAPER		ALL OTHER PAPER
		Quantity (tons)	Value	Quantity (tons)	Value	Quantity (tons)	Value	Value
Total (15 years)	$574,545,149	819,721	$58,779,548	437,032	$76,605,410	245,324	$36,170,803	$402,989,388
1923	43,557,388	16,357	1,636,937	13,299	3,001,149	13,374	2,176,377	36,742,925
1922	41,082,070	25,825	2,352,587	14,557	2,818,716	16,526	2,165,829	33,744,938
1921	49,494,822	16,812	2,160,339	20,092	5,895,245	13,022	2,293,892	39,145,346
1920	89,072,289	45,889	5,970,127	47,558	13,776,464	30,632	6,994,381	62,331,317
1919	86,983,063	110,268	10,091,951	76,691	16,169,055	37,458	6,664,462	54,057,595
1918	54,170,134	96,739	7,978,296	49,610	8,710,940	29,950	4,828,856	32,652,042
1917	46,393,655	93,866	7,586,374	47,274	8,179,868	26,243	3,987,239	26,640,174
1916	39,576,879	76,736	4,126,617	62,073	8,069,812	41,837	4,025,388	23,355,062
1915	22,264,371	55,161	2,707,626	22,329	2,169,067	18,496	1,667,387	15,720,291
1914	20,113,942	60,789	2,983,344	15,130	1,568,960	7,408	522,951	15,038,687
1913	21,174,217	43,301	2,105,984	14,059	1,617,285	6,861	560,535	16,890,413
1912	21,166,566	55,568	2,690,225	13,452	1,440,992	[1] 3,517	[1] 283,506	16,751,843
1911	18,702,151	48,921	2,357,455	13,215	1,278,796	-------	-------	15,065,900
1910	17,960,809	[1] 24,749	[1] 1,198,893	27,693	1,909,061	-------	-------	14,852,855
1909	[2] 2,832,793	[2] 48,740	[2] 2,832,793	-------	-------	-------	-------	-------

[1] July 1 to Dec. 31.
[2] Newsprint paper and all other printing paper.

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